

2-acyl indol derivatives and their use as anti-tumour agents.

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Inventor(s): BICKERS THOMAS; BAASNER SILKE; KLENNER THOMAS;
MAMBOO SILOVOSH; PONGRATZ HERMG; FRIESER;
MARKUS; FIEBIG HEINZ-HERBERT; HOCKEMEYER JOERG;
BUDGER ANGELIKA; BOEHMER FRANK-D; HUFSKY
HARALD

Applicant(s): BAXTER HEALTHCARE SA

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The use of 2-acyl-indole derivatives (including azo analogs) (I) as antitumor agents is new. Most compounds (I) are new. The use of indole

derivatives of formula (I) (including their stereoisomers, tautomers, mixtures and salts) is claimed in the preparation of medicaments for treating tumor diseases; R₁ = H, alkylcarbonyl, alkyl, alkylamino-T-, diarylamino-T- (where the diarylamino group may form a ring, optionally containing one or more NH (Nalkyl, O or S members), arylalkyl or arylalkoxyalkyl); T = 1-C(=O)R₂ (= halo, OR₁, alkyl or alkoxy (both optional substituents (as) by one or more halo), or alkene, alkyl, cycloalkyl, alkoxycarbonyloxy, alkylcarboniloxy, ST, SOT, SO₂T, alkoxoalkyl, NH₂, alkylamino, diarylamino (possibly forming a ring as in R₁), aryl, arlyoxy, aryl-T-O-T-, alkylcarbonyl, alkoxycarbonyl or OH; A₁-A₄ = C-R₃ or -R₃=H, halo, CN or NO₂, alkyl or alkoxy (both os by one or more halo); or alkanyl, alkynyl, cycloalkyl, alkoxycarbonyloxy, alkylcarboniloxy, ST, SOT, SO₂T, COOH, alkoxycarbonyl, CONH₂, CONHT, CON(T)₂, alkoxoalkyl, NH₂, alkylamino, diarylamino (possibly forming a ring as in R₁), aryl, arlyoxy, aryl-T-, aryl-T-O-T-, alkylcarbonyl or OH, or two adjacent R₃ groups may be bonded, specifically as 1-C(=O)alkylenedioxy, Y = aryl (preferably phenyl or naphthyl), 1-1*n*-heterocyl (containing 1-4 of N, NH, NHCOR, O and S atoms in a ring); R₃ = halo, cyanoalkyl, all os by one or more O, = O or O, CN, cyanoalkyl, OH, mono- or polyhydroxalkyl, COOH, alkoxycarbonyl, CONH₂, alkylcarbamoyl, CON(T)₂, NO₂, alkyl or alkoxy (both os by one or more halo), alkanyl, alkynyl, cycloalkyl, SH, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylsulfonyl, NH₂, alkylamino, diarylamino (possibly forming a ring as in R₁), aryl, arlyoxy, arylalkyl, arylalkoxalkyl, alkylcarbonyl, alkoxycarbonyl, alkylcarboniloxy, mono- or diaryloxycarbonylamino, N-alkyloxycarbonyl-N-alkylamino, N-alkyloxycarbonyl-N-alkylamino, NHCO or CHO; or two adjacent O groups may be bonded, specifically as 1-C(=O)alkylenedioxy, and X = O, S, NH or (H, OH) unless specified otherwise, alkyl moieties have 1-6C atoms and alkylene moieties 2-6C, alkylidene moieties 3-8C and aryl moieties 6-14C. Independent claims are included for the following: (a) new (I) (including their stereoisomers, tautomers, mixtures and salts), with the exception of (I; R₁, R₂ = H, A₁, A₃, A₄ = CH₂; X = O or if A₂ = CH₂CH(OH); Y = 3-carboxy-pyridin-4-yl; A₂ = CH or C(Me)₂), 2-cyclopropylcarbonyl-indole and 2-cyclohexylcarbonyl-indole; and (b) preparation of the new compounds (I).